

Serial No. 10/596,229
Response to Office Action mailed May 11, 2007
Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. A dosing device comprising a one-piece body, a main flow conduit extending through the body for conveying a main liquid stream, the main flow conduit [and] having a first inlet, an outlet and a zone of reduced cross-section between the first inlet and the outlet, a passage in the body intersecting the main flow conduit and extending to [between the said zone and] atmosphere, a control valve operable, when the main stream is to be dosed with a dosing liquid, to close the passage such that a relatively low pressure [zone] is generated [in] by the zone of reduced cross-section when the main liquid stream flows from the first inlet to the outlet through the zone, a second inlet in the body which intersects the main flow conduit and through which the dosing liquid can be drawn [into] by the relatively [the] low pressure [zone] to mix with the main liquid stream and form a mixed stream, [and] an aerator[,] located in the main flow conduit downstream of the zone of reduced cross-section [venture,] to receive air through the outlet and introduce it into the mixed stream[,] thereby to promote mixing of the dosing liquid with the main liquid stream and to aerate the mixed stream, the second inlet including an inlet spigot to which a dosing liquid conduit extending from a source of the dosing liquid can be connected, and a fixed orifice flow control nozzle located replaceably in the inlet spigot to control the flow of dosing liquid through the second inlet.
2. A dosing device according to claim 1 wherein the control valve includes a push-button depressible to seat a valve closure in the form of an O-ring on a seat defined by a surface surrounding the passage, thereby to close the passage.
3. A dosing device according to claim 2 wherein the push-button is spring-loaded [in a sense] to unseat the valve closure from the seat.

Serial No. 10/596,229
Response to Office Action mailed May 11, 2007
Page 3

4. A dosing device according to claim 1 wherein the outlet is spanned, downstream of the aerator, by a mesh gauze.
5. [deleted].
6. A dosing device according to any one of the preceding claims wherein the first inlet is threaded for connection to a faucet.
7. A dosing device according to claim 6 wherein the [conduit is formed in] body [having] has an outer surface formed with spanner-engagable flats, located below the second inlet and the passage to facilitate threaded connection of the first inlet to the faucet.
8. A dosing device according to [any one of the preceding claims wherein the second inlet includes a non-return valve] claim 1 comprising a non-return valve in the second inlet, between the flow control nozzle and the main flow conduit.
9. (new) A dosing device comprising a body, a main flow conduit extending through the body for conveying a main liquid stream, the main flow conduit having a first inlet, an outlet and a zone of reduced cross-section between the first inlet and the outlet, a passage in the body intersecting the main flow conduit and extending to atmosphere, a control valve operable, when the main stream is to be dosed with a dosing liquid, to close the passage such that a relatively low pressure is generated by the zone of reduced cross-section when the main liquid stream flows from the first inlet to the outlet through the zone, a second inlet in the body which intersects the main flow conduit and through which the dosing liquid can be drawn by the relatively low pressure to mix with the main liquid stream and form a mixed stream, and an aerator located in the main flow conduit downstream of the zone of reduced cross-section to receive air through the outlet and introduce it into the mixed stream thereby

Serial No. 10/596,229
Response to Office Action mailed May 11, 2007
Page 4

to promote mixing of the dosing liquid with the main liquid stream and to aerate the mixed stream, the second inlet including an inlet spigot to which a dosing liquid conduit extending from a source of the dosing liquid can be connected, and a non-return valve located in the inlet spigot.

10. A dosing device according to claim 9 wherein the body is a one-piece body.
11. A dosing device according to claim 9 comprising a fixed orifice flow control nozzle located replaceably in the inlet spigot to control the flow of dosing liquid through the second inlet, the non-return valve being located in the inlet spigot between the flow control nozzle and the main flow conduit.
12. A dosing device according to claim 11 wherein the non-return valve comprises a valve seat in the inlet spigot, a ball in the inlet spigot and a spring which urges the ball, in a direction towards the flow control nozzle, to seat the ball on the valve seat.